

Claims

1. A power injector system for use with a magnetic resonance imaging system installed at least in part within an electromagnetic interference shielded room electrically accessible via a penetration panel, the power injector system comprising:

5 a power head adapted for operation within the shielded room to controllably inject a compound into a patient;  
a power supply for operation outside the shielded room to receive utility electrical power; and  
a power connection configured to couple electrical power  
10 through the penetration panel between the power supply outside of the shielded room and the power head for actuating the power head.

2. The power injector of claim 1, further comprising a power control adapted for operation within the shielded room interposed between the power supply and the power head, the power control operable to selectively  
actuate the power head with power received via the power connection from the  
5 power supply.

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modifying a power control in a shielded magnet room to electrically couple power transmission conductors of the shielded cables to terminals of a battery receptacle in the power control.

4. The method of claim 3, further comprising:  
in the power supply, relaying data signals from a console in the  
control room to the data conductors of the electrical  
cable outside of the shielded magnet room via a datalink  
in the power supply.

5. The method of claim 3, further comprising:  
in the power supply, coupling AC electrical power from an AC outlet to an AC  
outlet externally mounted on the power supply for powering the console.

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